

APRIL/MAY 2025

**FABC25C/CABC25C/BABC25C —
BIOCHEMISTRY — II (ALLIED)**

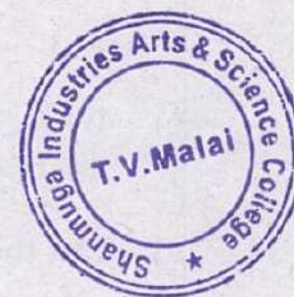
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write the significance of HMP Shunt?
2. What are the end products of Glycolysis?
3. What are the hallmark signs of diabetes mellitus?
4. Is glycogen storage disease a genetic disorder?
5. What is lock and key theory?
6. What is an enzyme?
7. List the types of vitamins.
8. What is ascorbic acid?
9. What are fat soluble vitamins?
10. List good sources of vitamin A.



SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) What is a deamination reaction? Discuss.

Or

- (b) Explain the role of transaminases.

12. (a) Why do people with diabetes mellitus have Glycosuria and Ketonuria?

Or

- (b) What causes black urine in Alkaptonuria?

13. (a) What is enzyme and its classification?

Or

- (b) What are the three types of enzyme inhibitors?

14. (a) List the functions of Vitamin E.

Or

- (b) Explain the sources and functions of Vitamin C.

15. (a) List the functions of phosphorus.

Or

- (b) How are minerals acts as cofactors? Explain.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the reactive of urea cycle.

17. Elaborate on phenylketonuria.

18. Classify enzymes

19. Explain RDA, sources and functions of Vitamin D.

20. Enumerate the Sources, RDA and functions of Iron.

